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PCT/EP98/06139INTERNATIONAL FILING DATE  
(26.09.98)  
26 September 1998PRIORITY DATE CLAIMED:  
(17.10.97)  
17 October 1997TITLE OF INVENTION  
**METHOD AND DEVICE FOR RELAYING SPECIFIC DATA, ESPECIALLY RECEIVING RIGHTS, TO A PAY TELEVISION TERMINAL**APPLICANT(S) FOR DO/EO/US  
**SCHWENK, Joerg; HEUSER, Stephan; SCHAAF, Christoph and FINGERHOLZ, Joachim**

Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) immediately rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
- ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
- ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☒ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: PCT/RO/10, International Search Report and International Preliminary Examination Report.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: SCHWENK, et al.  
SERIAL NO.: to be assigned  
FILED: herewith  
TITLE: METHOD AND DEVICE FOR RELAYING SPECIFIC DATA,  
ESPECIALLY RECEIVING RIGHTS, TO A PAY TELEVISION  
TERMINAL  
ART UNIT: not yet known  
EXAMINER: not yet known

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT

Please amend the above-identified application before a first consideration on the merits as follows:

IN THE TITLE

Please amend the title to read --METHOD AND DEVICE FOR ROUTING OF SPECIFIC DATA, PARTICULARLY RECEIVING RIGHTS, IN A PAY-TV TERMINAL--.

IN THE SPECIFICATION

On page 1, before line 1 insert --Field of the Invention--.

On page 1, line 1, before "invention" insert --present-- and change "the routing" to --routing--.

On page 1, line 2, delete "of".

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On page 1, before line 6, insert --Related Technology--.

On page 2, line 10, change "The" to --A--.

On page 2, line 16, delete "always".

On page 3, before line 1, insert --World Patent Document No. 93/07715 A1 describes a pay-TV terminal which includes a card reader, a microprocessor and a memory, in which user-specific demands on the pay-TV terminal can be input via a chipcard and the card reader. As soon as the chipcard is inserted into the card reader, the data are downloaded from the chipcard and stored in the memory.

#### Summary of the Invention--.

On page 3, line 1, change "the object" to --an object--, before "invention" insert --present-- and change "develop a design approach" to --provide a method and device for routing of specific data, particularly receiving rights, in a pay-TV terminal,--.

On page 3, line 2, change "has" to --have--.

On page 3, delete lines 4-5.

On page 3, line 7, change "The invention is characterized in that" to --In an embodiment according to the present invention,--.

On page 3, line 11, delete "it is necessary that" and change "use" to --uses--.

On page 3, line 20, change "A further advantageous refinement of the invention is that" to --In another embodiment according to the present invention,--.

On page 3, line 25, change "must be" to --is--.

On page 4, line 1, change "of the" to --according to the present--.

On page 4, line 30, change "One advantageous refinement of the" to --In an embodiment according to the present-- and delete "is that".

On page 5, line 2, change "ensures" to --is to ensure--.

On page 5, line 28, change "The method of" to --A method according to-- and change "according to Claim 1 and this device of" to --and a device according to--.

On page 5, line 29, delete "according to Claim 9 each" and change "have" to --include--.

On page 6, before line 4, insert --Brief Description of the Drawings--.

On page 6, line 6, before "invention" insert --present-- and change "on the basis of an

exemplary" to --with reference to the drawings, in which:--.

On page 6, delete line 5.

On page 6, line 7, change "scenario" to --diagram--.

On page 6, before line 17, insert --Detailed Description--.

On page 6, line 20, delete "essentially".

On page 10, line 1, change "Patent Claims" to --WHAT IS CLAIMED IS:--.

## IN THE CLAIMS

Please cancel without prejudice claims 1-13 and the substitute claims 1-13 presented in the International Preliminary Examination Report (a translation of which is submitted herewith) and add new claims 14-33 as follows:

--14. (new) A method for routing data in a pay-TV terminal, the data including receiving rights for a mobile data carrier, the method comprising:

transmitting the data from a transmitter via a transmission medium to the pay-TV terminal;

buffering the data using the pay-TV terminal;

establishing communication between the mobile data carrier and the pay-TV terminal;

and then

routing the receiving rights to the mobile data carrier and storing the receiving rights in the mobile data carrier.

15. (new) The method as recited in claim 14 wherein the data includes at least second receiving rights for a second mobile data carrier.

16. (new) The method as recited in claim 14 wherein the mobile data carrier includes a chipcard.

17. (new) The method as recited in claim 16 further comprising storing in a list a respective chipcard number and respective chipcard-specific filter information for at least one of the chipcard and a second chipcard so as to enable the pay-TV terminal to cooperate with

at least one of the chipcard and the second chipcard.

18. (new) The method as recited in claim 17 further comprising preselecting at least one of a length and a composition of the list to be variable or fixed.

19. (new) The method as recited in claim 17 wherein the storing is automatically performed according to fixed rules using the pay-TV terminal.

20. (new) The method as recited in claim 17 wherein the storing is performed manually.

21. (new) The method as recited in claim 17 further comprising transmitting the chipcard numbers and respective chipcard-specific filter information to the pay-TV terminal via the transmission medium.

22. (new) The method as recited in claim 14 further comprising transmitting filter information to the pay-TV terminal using the mobile data carrier upon the establishing of communication between the mobile data carrier and the pay-TV terminal.

23. (new) The method as recited in claim 17 further comprising deleting the receiving rights using a preselected prioritization if a size of the list is exceeded.

24. (new) A device for decoding pay-TV programs, the device comprising:  
a control and evaluation electronics;  
a communication apparatus for communicating with a first mobile data carrier via an interface; and  
a memory for use as a list so as to buffer data transmitted from a transmitter to the device via a transmission medium using the control and evaluation electronics, at least a first portion of the buffered data being routed immediately or at a later time to the first mobile data carrier.

25. (new) The device as recited in claim 24 further comprising a pay-TV terminal.

26. (new) The device as recited in claim 24 wherein the first mobile data carrier includes a chipcard.

27. (new) The device as recited in claim 24 wherein the data includes receiving rights.

28. (new) The device as recited in claim 24 wherein the memory is non-volatile.

29. (new) The device as recited in claim 24 wherein the memory includes at least one of an EEPROM and a flash PROM.

30. (new) The device as recited in claim 24 wherein the communication device is for communicating with the first mobile data carrier and with a second mobile data carrier and wherein the control and evaluation electronics includes a control module for performing an allocation respectively between the first portion and a second portion of the buffered data and the first and second mobile data carriers.

31. (new) The device as recited in claim 24 wherein the communication device is for communicating with the first mobile data carrier and with a second mobile data carrier and wherein the control and evaluation electronics includes an evaluation module for determining which of the first and second mobile data carriers is in communication with the pay-TV terminal so as to enable a respective routing of the first portion of the buffered data and a second portion of the buffered data.

32. (new) The device as recited in claim 24 further comprising a pay-TV terminal having a priority circuit for determining which of the first portion of the buffered data and a second portion of the buffered data are deleted upon an exceeding of a space in the memory.

33. (new) The device as recited in claim 32 wherein the first and second data portions respectively include first and second receiving rights.--.

### IN THE ABSTRACT

Line 1, change “The invention relates to a” to --A--.

Line 2, change “Said data” to --Data--.

Line 3, after “transmission” insert --medium (3).--.

Delete line 4.

Line 5, change “The method and device are characterized in that the” to --The--.

Line 6, after “(34)” insert --, such as a chipcard,--.

Line 8, change both occurrences of “said” to --the--.

Line 9, change “carries” to --carriers--.

### REMARKS

This Preliminary Amendment cancels original claims 1-13 and the substitute claims 1-13 in the underlying PCT Application No. PCT/EP98/06139 and adds new claims 14-33. The new claims do not add new matter to the application but do conform the claims to U.S. Patent and Trademark Office rules.

The amendments to the specification and abstract are to conform the specification and abstract to U.S. Patent and Trademark Office rules. It is respectfully submitted that the amendments to the specification and abstract do not introduce new matter into the application.

The underlying PCT application includes a Search Report, a copy of which is included herewith.

Conclusion

Consideration of the present application as amended is hereby respectfully requested.

Respectfully Submitted,

Kenyon & Kenyon

Dated: 1/17/00

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METHOD AND DEVICE FOR THE ROUTING OF SPECIFIC DATA,  
PARTICULARLY OF RECEIVING RIGHTS IN A PAY-TV TERMINAL

5 The invention relates to a method and a device for the  
routing of specific data, particularly of receiving  
rights, in a pay-TV terminal, which are transmitted  
from a transmitter via a transmission medium to the  
pay-TV terminal, using mobile data carriers,  
particularly chipcards.

10 It is known that pay-TV systems employ "conditional  
access systems" in order to ensure that pay-TV programs  
can be received only by entitled customers. This is  
accomplished by encryption of the program contents, by  
storage of receiving rights in a security module in the  
terminal and by the addition of receiving conditions to  
the actual program contents.

15 Terminals for receiving a pay-TV program are usually  
set-top boxes or decoders. However, other terminals  
such as PC cards or PCMCIA modules are also possible,  
or the terminal may also be integrated into a  
20 television set. At present, the security modules used  
are usually chipcards which are not permanently  
connected to the terminal, but can also be removed from  
it.

25 The program contents are encrypted, in that the program

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data are encrypted by an encryption algorithm such as the DVB common-scrambling algorithm, or with the DES algorithm, and are decrypted in the pay-TV terminal.

5 The receiving conditions are added to a program in the form of "entitlement control messages" (ECMs) which are transmitted with the program contents. These ECMs are associated in fixed manner with the program contents and make it possible for the encrypted program contents  
10 to be decrypted again, thereby enabling the customer to use picture and sound in the accustomed manner.

The receiving rights are transmitted in the form of "entitlement management messages" (EMMs). The program  
15 contents, the receiving conditions and the receiving rights are transmitted over the same transmission medium (cable, satellite, terrestrial broadcast, etc.). However, the receiving rights are not linked with the program contents, but with a logical address of the  
20 terminal of the customer or with that of the security module.

The basic principle of addressing in pay-TV systems lies in storing all the receiving rights of a customer  
25 on his/her personal security module. This also enables a customer to use a different terminal to view the pay-TV programs to which he has subscribed or which he has bought (when traveling, for example). Consequently, the terminal itself does not contain an address.

30 Since the receiving rights are always addressed to a security module, usually in the form of a chipcard, the pay-TV terminal filters out from the stream of received receiving rights only those which are addressed to the  
35 current chipcard that is presently in communication

with the terminal. The pay-TV terminal receives additionally required filter criteria from the current chipcard. This means that a customer can only receive new receiving rights when his chipcard is in communication with a pay-TV terminal. Therefore, pay-TV customers are advised to continually leave their chipcards in the pay-TV terminal. However, since the program provider must also expect that customers will not follow this advice, the program provider must repeatedly transmit the receiving rights over a long period of time, which, given large numbers of customers, necessitates a tremendous data capacity.

With this concept, it is impossible for several customers to access a pay-TV terminal with their individual chipcards. Consequently, each customer must have his own terminal in order to ensure that he receives his receiving rights as well.

WO 93/07715 A1 describes a pay-TV terminal which includes a card reader, a microprocessor and a memory, in which user-specific demands on the pay-TV terminal can be input via a chipcard and the card reader. As soon as the chipcard is inserted into the card reader, the data are downloaded from the chipcard and stored in the memory.

Therefore, the object of the invention is to develop a design approach which no longer has the above disadvantages.

This objective is achieved by a method having the features of Claim 1 and by a device having the features of Claim 9.

The invention is characterized in that the pay-TV

terminal buffers certain data, particularly the receiving rights, and, once a specific mobile data carrier, particularly a chipcard, is in communication with the pay-TV terminal, the receiving rights  
5 belonging to this mobile data carrier are routed to said mobile data carrier and stored. For this purpose, it is necessary that the pay-TV terminal use a list to store a certain number of chipcard numbers, together with chipcard-specific filter information, with which  
10 the pay-TV terminal is to cooperate. When a chipcard which was never in communication with the pay-TV terminal is inserted into the pay-TV terminal for the first time, the number of the chipcard is stored in the pay-TV terminal. Thus, the pay-TV terminal "knows"  
15 which receiving rights it must filter out from the data stream of all transmitted receiving rights in order to be able to store those receiving rights in the list.

A further advantageous refinement of the invention is  
20 that the length of the list and/or the precise composition of the list is predetermined to be variable or fixed. This makes it possible, depending on the technical possibilities of the pay-TV terminal, to configure a memory of the pay-TV terminal for the list  
25 on the one hand and, on the other hand, for other purposes not further described here. Since the storage capacity of the pay-TV terminal is not unlimited, the list must be dimensioned to a certain size, so that  
30 only a certain number of chipcard numbers can be stored in the list in the pay-TV terminal.

However, it is also possible for the list to be generated automatically by the pay-TV terminal according to fixed rules.

In a further embodiment of the invention, the list is entered manually by the customer. For this purpose, it is necessary that the customer independently program the numbers of the chipcard into the pay-TV terminal.

5 However, it is also conceivable for the list to be transferred into the pay-TV terminal via the medium. In this case, the system operator transmits the chipcard numbers via the transmission path to the pay-TV terminal of the customer; this, of course, presupposes  
10 that the terminal can be addressed. Consequently, the chipcard numbers can be transferred via this path into the list of the pay-TV terminal and stored there.

15 It is further provided that a mobile data carrier, particularly a chipcard, transmits filter information to the pay-TV terminal as soon as it is in communication with the pay-TV terminal. The pay-TV terminal requires this filter information in order to be able to filter out from the stream of transmitted  
20 receiving rights, those rights which are relevant for the chipcard in question.

In addition, provision is made that, with the aid of a preset prioritization, the receiving rights are deleted  
25 if the list available in the pay-TV terminal is exceeded. If the memory space of the pay-TV terminal available for a chipcard is exceeded, a prioritization logic circuit must ensure that receiving rights or the numbers of the chipcards are removed from the list, so  
30 that only the "most important" chipcard numbers and their receiving rights are stored in the pay-TV terminal.

35 The invention further relates to a pay-TV terminal that features at least a memory, a communication apparatus

and a control and evaluation electronics which makes it possible for the specific data, particularly the receiving rights, to be stored in the pay-TV terminal and, in response to communication via the communication apparatus of the pay-TV terminal with a specific mobile data carrier, particularly with a chipcard, for this specific data to be routed to the chipcard.

One advantageous refinement of the invention is that the memory is a nonvolatile, preferably an EEPROM or a flash PROM, memory. The use of a non-volatile memory module ensures that, in the event of a power failure, the pay-TV terminal does not lose its stored data.

A control module of the control and evaluation electronics in the pay-TV terminal is responsible for carrying out an allocation between the specific data and the specific data carriers. The control module therefore has the function of correctly allocating the specific data (receiving rights) to the numbers of the chipcards stored in the list of the pay-TV terminal, in order to be able to store the data in the list.

An evaluation module of the control and evaluation electronics checks which mobile data carrier is in communication with the pay-TV terminal, in order thereby to permit the correct routing of the specific data. Consequently, the evaluation module has the function, inter alia, of checking whether a chipcard is in communication with the pay-TV terminal. If so, the evaluation module checks whether receiving rights are available for this chipcard, in order thus to transmit these receiving rights to the chipcard. If the chipcard in question, or its chipcard number, is not entered in the list, the evaluation module must ensure that this

is done.

In addition, a priority circuit in the pay-TV terminal decides which specific data, particularly receiving  
5 rights, are deleted if the available memory space in the pay-TV terminal is exceeded. Therefore, should the list stored in the pay-TV terminal be completely filled with data, the priority circuit has the function of providing a logic to ensure that either further  
10 chipcards which are inserted into the terminal are ignored or, alternatively, that chipcard numbers stored in the list are deleted, so that "new" chipcards can be entered in the list.

This method of the present invention according to Claim 1 and this device of the present invention according to Claim 9 each have the advantage that several customers  
15 can now access one pay-TV terminal with their personal chipcards and are therefore always able to receive new or additional receiving rights and to store them on  
20 their chipcards.

Hereinbelow, the invention is described in greater detail on the basis of an exemplary embodiment with  
25 reference to the Drawing, in which:

Fig. 1 shows a schematic scenario of a pay-TV system;

30 Fig. 2 shows a flow chart of the communication between a chipcard and a pay-TV terminal;

Fig. 3 shows a flow chart of the communication between a pay-TV terminal and a transmission  
35 medium; and

Fig. 4 shows a schematic block diagram of a pay-TV terminal.

Fig. 1 shows a schematic scenario of a pay-TV system 1 used to receive and decode encrypted television programs.

Pay-TV system 1 essentially includes a pay-TV terminal 2, a transmission medium 3 and a transmitter 4, both pay-TV terminal 2 and transmitter 4 being connected to transmission medium 3. Fig. 1 also shows a plurality of symbolically depicted mobile data carriers 34 in the form of chipcards 5 with their contacting elements 6. Pay-TV terminal 2 has a communication apparatus 36 in the form of a contacting device 7 used to accept chipcards 5. Further shown in pay-TV terminal 2 is a symbolically depicted memory 35 in the form of a list 8. List 8 is symbolically shown with rows 9 and columns 10, to indicate that data can be stored in a structured manner in list 8. Pay-TV terminal 2 is connected via a connecting cable 11 to transmission medium 3. Likewise, transmitter 4 is connected via a connecting cable 12 to transmission medium 3.

Fig. 2 shows a first, greatly simplified flow chart 13 in order to explain hereinbelow the communication between a chipcard 5 and a pay-TV terminal 2.

A starting point 14, in which necessary software and/or hardware initializations are carried out, is followed by a first step 15. During step 15, pay-TV terminal 2 waits for a chipcard 5, in order to enter into communication with it. When a chipcard 5 with its contacting elements 6 is introduced into contacting device 7 of pay-TV terminal 2, a transition is made to



a first branch point 16. At this first branch point 16, it is now checked whether the number of the chipcard is already stored in list 8, or whether it is a "new" chipcard 5. If a chipcard 5 is inserted which has not yet been entered in list 8 of pay-TV terminal 2, a switch is made to a step 17 in which the filter information and the number of chipcard 5 are transferred into list 8 of pay-TV terminal 2. If this step has already been executed in the past, then, starting from first branch point 16, this step 17 is skipped and a jump is made to a second branch point 18. If the chipcard is a "new" chipcard, then, starting from step 17, second branch point 18 is also reached. At second branch point 18, it is decided whether special data, particularly receiving rights, exist for this chipcard 5, the special data having been transferred at an earlier time or at this moment to pay-TV terminal 2 by transmitter 4 via transmission medium 3. If this is not the case, a jump is made directly to an end point 20 and no further steps are carried out. If, however, receiving rights exist for this chipcard 5, then a jump is made to a step 19. In this step 19, the receiving rights for inserted chipcard 5, stored in list 8, are transmitted to chipcard 5. Consequently, the receiving rights for this chipcard 5 have now been transmitted, through intermediate storage in list 8 of pay-TV terminal 2, to chipcard 5 of the customer. After step 19, no further actions are required, so that a jump can be made directly to end point 20. At end point 20, it is possible to carry out final activities which, however, are not relevant for the method of the present invention and are therefore not further described. For the sake of clarity, a necessary loop, starting from end point 20 back to starting point 14, is not shown.

The second flow chart 21 in Fig. 3 shows, in greatly simplified and abstract form, the communication between pay-TV terminal 2 and transmission medium 3. After activation of pay-TV terminal 2, the sequence of second flow chart 21 is started at starting point 22. As at starting point 14 in Fig. 2, necessary hardware and/or software initializations are carried out at starting point 22. After starting point 22 has been executed, a transition is made to a branch point 23. At branch point 23, transmission medium 3 is constantly "monitored", so that there is a continuous comparison between the stored filter information of pay-TV terminal 2 and the receiving rights transmitted via transmission medium 3. If the filter information agrees with specific data from the receiving rights, a transition is made to a step 24. In this step 24, the receiving rights are then extracted from a transmitted data stream 33 and stored in appertaining row 9 of list 8. If the filter information does not agree with the specific data from the receiving rights, then step 24 is also not carried out. This comparison of the filter information and the specific data from the receiving rights is now constantly repeated, as is implied by loop 25 represented in Fig. 3.

Fig. 4 shows a schematic block diagram of a pay-TV terminal 2 with connecting cable 11 to transmission medium 3. Pay-TV terminal 2 possesses contacting device 7 and list 8. Additionally, pay-TV terminal 2 contains a control and evaluation electronics 26 and a priority circuit 27. Control and evaluation electronics 26 has a control module 28 and an evaluation module 29. For the sake of clarity, the relevant modules necessary for the reception of the data and the necessary decoding modules are not shown in Fig. 4. Via connecting cable

11, control module 28 "listens to" the data supplied  
via transmission medium 3, so that, as apparent in Fig.  
4, data stream 33 [flows] in the direction of pay-TV  
terminal 2. Control module 28 implements flow chart 21  
5 which was explained in Fig. 3, so that, as shown in  
Fig. 4, a bidirectional connecting cable 30 between  
control module 28 and list 8 must be provided.

Evaluation module 29 provides a communication with  
10 contacting device 7 via a connecting cable 31. This  
connecting cable 31 must likewise be bidirectional, so  
that, firstly, data can be exchanged in the direction  
of contacting device 7, and therefore in the direction  
of chipcard 5, and, secondly, data can be exchanged in  
15 the direction of evaluation module 29 and therefore in  
the direction of list 8. Using a bidirectional  
connecting cable 32 ensures that, on one hand, the  
filter information can be transferred from the chipcard  
into list 8, and on the other hand, the receiving  
20 rights can be transmitted via this connecting cable 32  
to chipcard 5. Thus, evaluation module 29 assumes the  
function represented in Fig. 2 on the basis of flow  
chart 13.

## Patent Claims

1. A method for routing specific data, particularly receiving rights, in a pay-TV terminal, the data being transmitted from a transmitter via a transmission medium to the pay-TV terminal, using mobile data carriers, particularly chipcards, characterized in that the pay-TV terminal (2) buffers the specific data and, once a specific mobile data carrier (34) is in communication with the pay-TV terminal (2), the receiving rights belonging to this mobile data carrier (34) are then routed to the mobile data carrier (34) and stored.

2. The method as recited in Claim 1, characterized in that the pay-TV terminal (2) uses a list (8) to store a certain number of chipcard numbers together with chipcard-specific filter information with which the pay-TV terminal (2) is to cooperate.

3. The method as recited in one of the preceding claims, characterized in that the length and/or precise composition of the list (8) is preselected to be variable or fixed.

4. The method as recited in one of the preceding claims, characterized in that the list (8) is automatically generated by the pay-TV terminal (2) according to fixed rules.

5. The method as recited in one of Claims 1 through 3, characterized in that the list (8) is entered manually.

6. The method as recited in one of Claims 1 through

3, characterized in that the list (8) is transmitted via the transmission medium (3) to the pay-TV terminal (2).

7. The method as recited in one of the preceding claims, characterized in that, as soon as it is in communication with the pay-TV terminal (2), **the** mobile data carrier (34) transmits filter information to the pay-TV terminal (2).

8. The method as recited in one of the preceding claims, characterized in that the receiving rights are deleted with the aid of a preselected prioritization if the list (8) available in the pay-TV terminal (2) is exceeded.

9. A device, mainly for decoding pay-TV programs, hereinafter referred to as pay-TV terminal, for implementing the method as recited in one or more of the preceding claims, characterized in that the pay-TV terminal (2) has at least a memory (35) - which is used as a list (8) -, a control and evaluation electronics (26) and a communication apparatus (36) to a mobile data carrier (34), particularly to a chipcard (5), as well as an interface to the mobile data carrier (5), so that specific data, particularly receiving rights, which are transmitted from a transmitter (4) via a transmission medium (3) to the pay-TV terminal (2). and<sup>1</sup> are buffered in the memory (35) as list (8) with the aid of the control and evaluation electronics (26), and the

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<sup>1</sup>Translator's note: This word "and" is found in the original, but would appear to be an error and perhaps should be deleted. If this is done, the sentence reads properly, but if it is left in, the sentence would seem to need another verb.

buffered specific data are, instantaneously or at a later time, routed to a specific data carrier (34) - which is in communication with the pay-TV terminal (2) via the communication apparatus (36) and the interface - and are stored.

10. The device as recited in Claim 9, characterized in that the memory (35) is a non-volatile, preferably an EEPROM or a flash PROM, memory.

11. The device as recited in Claim 9 or 10, characterized in that a control module (28) of the control and evaluation electronics (26) carries out an allocation between the specific data and the specific data carriers (34).

12. The device as recited in Claim 9, 10 or 11, characterized in that an evaluation module (29) of the control and evaluation electronics (26) checks which mobile data carrier (34) is in communication with the pay-TV terminal (2), in order thereby to enable the correct routing of the specific data.

13. The device as recited in one of Claims 9 through 12, characterized in that a priority circuit (27) in the pay-TV terminal (2) establishes which specific data, particularly receiving rights, are deleted if the available memory space is exceeded.

	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0
0	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016	0.0017	0.0018	0.0019	0.0020	0.0021	0.0022	0.0023	0.0024	0.0025	0.0026	0.0027	0.0028	0.0029	0.0030	0.0031	0.0032	0.0033	0.0034	0.0035	0.0036	0.0037	0.0038	0.0039	0.0040	0.0041	0.0042	0.0043	0.0044	0.0045	0.0046	0.0047	0.0048	0.0049	0.0050	0.0051	0.0052	0.0053	0.0054	0.0055	0.0056	0.0057	0.0058	0.0059	0.0060	0.0061	0.0062	0.0063	0.0064	0.0065	0.0066	0.0067	0.0068	0.0069	0.0070	0.0071	0.0072	0.0073	0.0074	0.0075	0.0076	0.0077	0.0078	0.0079	0.0080	0.0081	0.0082	0.0083	0.0084	0.0085	0.0086	0.0087	0.0088	0.0089	0.0090	0.0091	0.0092	0.0093	0.0094	0.0095	0.0096	0.0097	0.0098	0.0099	0.0100





1 (4)

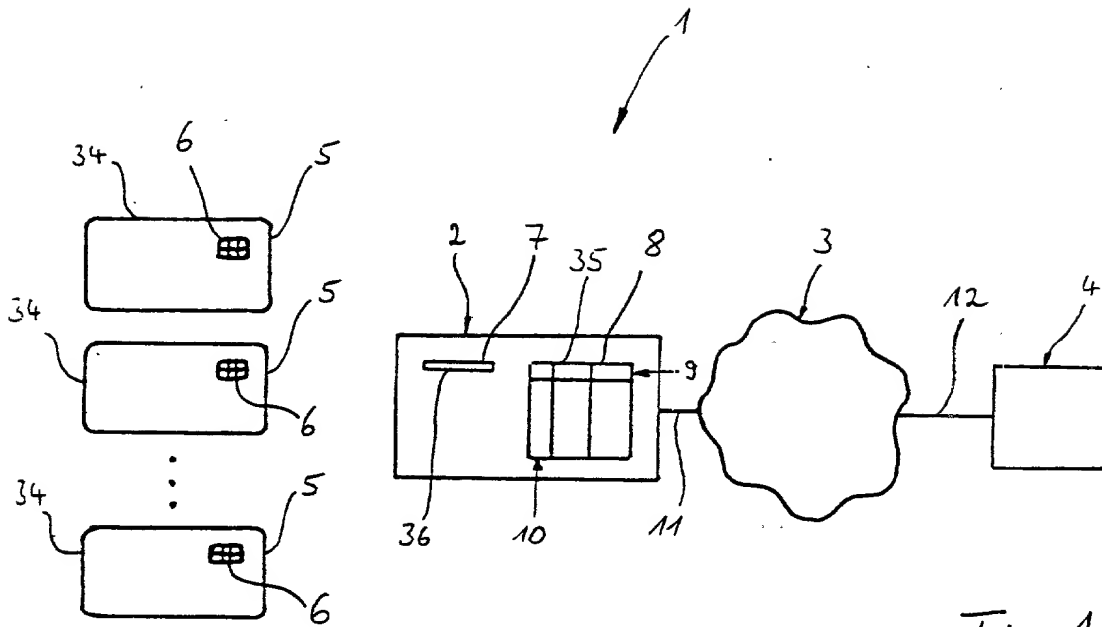


Fig. 1

2 (4)

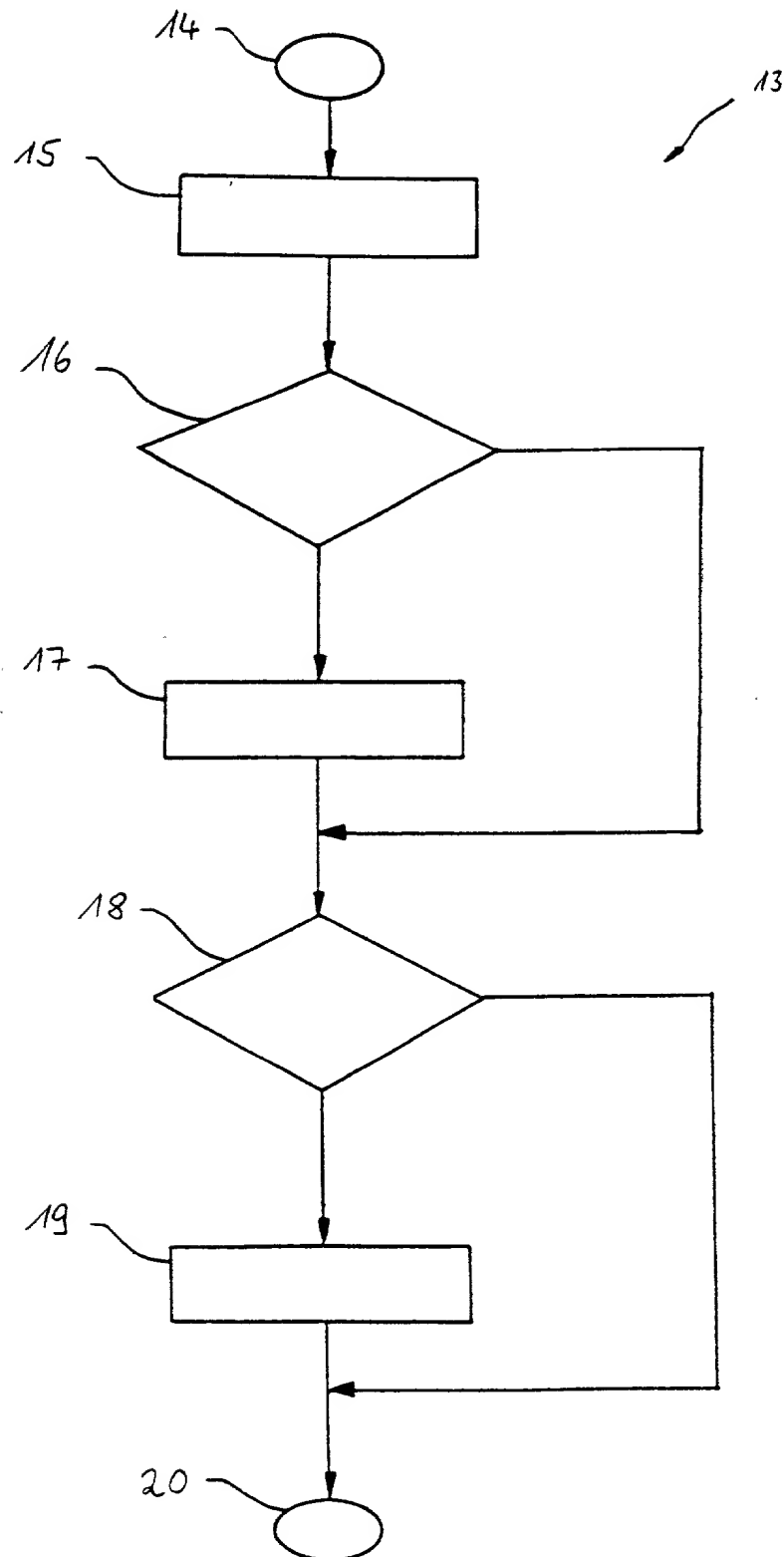


Fig. 2

3 (4)

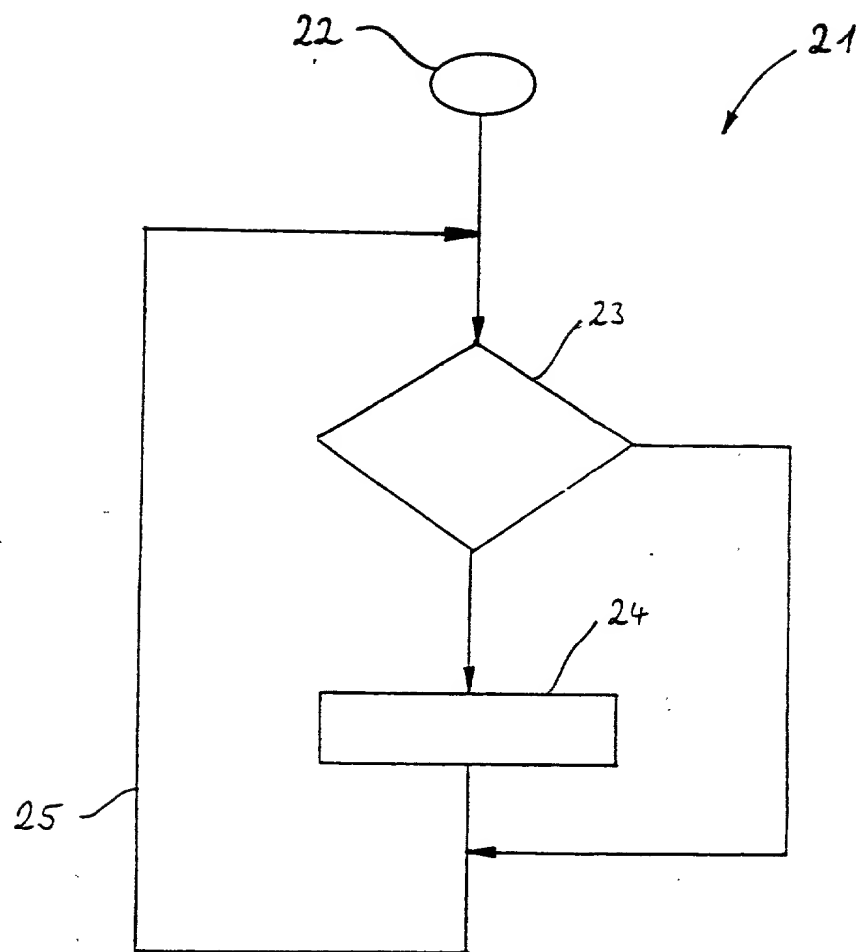


Fig. 3

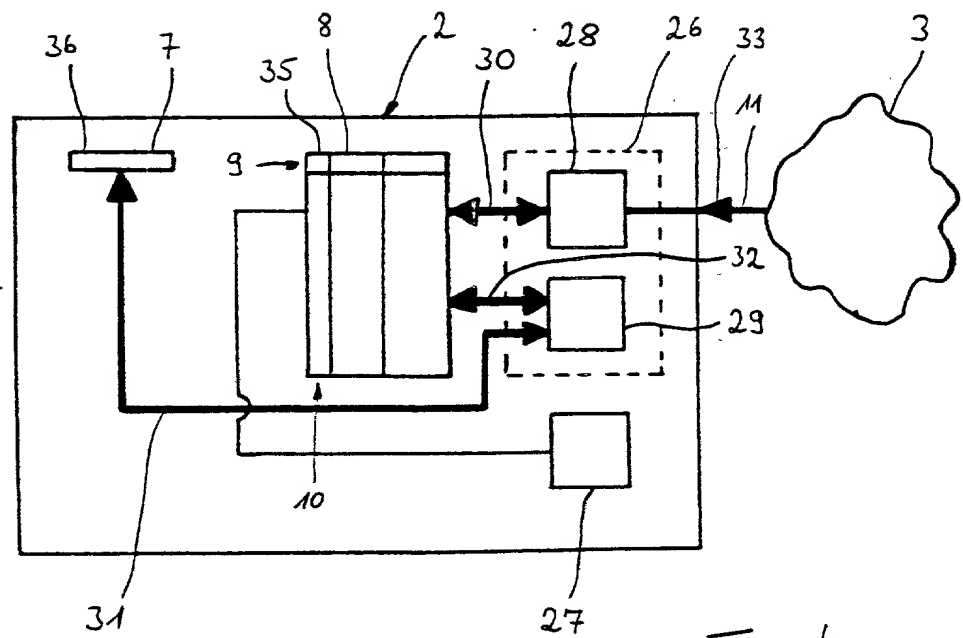


Fig. 4

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	
<b>DECLARATION AND POWER OF ATTORNEY</b>	ATTORNEY'S DOCKET NO. <b>2345/122</b>

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name,

I believe I am an original, first, and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled **METHOD AND DEVICE FOR RELAYING SPECIFIC DATA, ESPECIALLY RECEIVING RIGHTS, TO A PAY TELEVISION TERMINAL**, the specification of which was filed as International Application No. **PCT/EP98/06139** on **26 September 1998**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

**PRIOR FOREIGN APPLICATION(S)**

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. § 119
<b>GERMANY</b>	<b>197 45 969.2</b>	<b>17 October 1997</b>		<b>YES</b>

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys:

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EM 360465755US

I declare that all statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.

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Signature		Date	

I declare that all statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.

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Signature <i>X J. P.</i>		Date <i>24.2.2000</i>	